ATTACHMENT 001

30 Oct 2000

STATEMENT OF WORK SMALL ARMS FIRE CONTROL SYSTEM (SAFCS)
SECTION C - DESCRIPTION/WORK STATEMENT

1.0 SCOPE

This Statement of Work is for the delivery of a modified Non-Developmental Item (NDI) herein referred to as the Small Arms Fire Control System (SAFCS). The contractor shall provide twenty (20) SAFCS hardware units such that, when integrated on a MK19 40mm Grenade Machine Gun, the Probability of Hit (PH) is significantly improved over the current system. In addition there are five contract options for delivery of an estimated 350 SAFCS units for each of the five options.

2.0 APPLICABLE DOCUMENTS

Document	Title
SAFCS Performance Requirement	Government Performance Requirement Small Arms Fire Control System (SAFCS) Dated 10/10/00 (Attachment 002)
MIL-STD-40051A	Preparation of Digital Technical Information for Multi-Output Presentation of Technical Manuals Dated 2 Mar 1999
MIL-STD-882D	Standard Practice for System Safety Dated 10 Feb 2000
MIL-STD-2073-1	Standard Practice For Military Packaging
ISO 9001	Quality Systems - Model for Quality Assurance in Design, Development, Production, Installation, and Servicing Dated 1994
TM-9-1010-230-10	Operator's Manual, Machine Gun, 40MM MK19, Mod 3
TM-9-1010-230-23 & P	Unit and Direct Support Maintenance Manual including Repair Parts and

	Special Tools List, MK19, Mod 3, 40mm Machine Gun
DMWR 9-1010-230	Depot Maintenance Work Requirement, Machine Gun, 40MM MK19, Mod 3
FM 23-27	Field Manual, MK19, 40mm Grenade Machine Gun, Mod 3

3.0 REQUIREMENTS

3.1 HARDWARE DEMONSTRATION PHASE

3.1.1 The contractor shall provide hardware to meet the requirements as defined in the Government Performance Requirement, Small Arms Fire Control System, and shall deliver 20 SAFCS units. Operation and maintenance of the MK19 system for informational purposes are discussed in:

TM-9-1010-230-10	Operator's Manual, Machine Gun, 40MM MK19, Mod 3
TM-9-1010-230-23 & P	Unit and Direct Support Maintenance Manual including Repair Parts and Special Tools List, MK19, Mod 3, 40mm Machine Gun
DMWR 9-1010-230	Depot Maintenance Work Requirement, Machine Gun, 40MM MK19, Mod 3
FM 23-27	Field Manual, MK19, 40mm Grenade Machine Gun, Mod 3

3.1.2 The contractor shall provide a one time operation and maintenance course of instruction for the SAFCS to government personnel at the contactors plant no later than 45 days prior to hardware delivery of the 20 SAFCS units. The purpose of the training will be to familiarize the government personnel with the proper operation and maintenance of the SAFCS. Dates of the training will be scheduled at the Start of Work Meeting by agreement of the contractor and Government.

3.1.3 Deficiencies identified during DT/OT shall be corrected by the contractor at no additional cost to the Government.

3.1.4 The contractor shall prepare and deliver three sets of contractor format drawings and associated parts lists (DI-DRPR-81003A) for use by the government to include analysis of how component subsystems and components are integrated into the complete system, provisioning, and maintenance activities. This shall include providing interface drawings documenting all interface areas of the

design, (e.g. SAFCS to night sight interface, system to weapon interfaces, signal and data connectors, etc.), a SAFCS top drawing specifying all components of the system including the fire control unit, carrying case, wiring connectors(s), cleaning kit, etc., installation drawings, maintenance drawings, major assembly drawings, complete parts lists, and all other item drawings. The contractor shall arrange the drawings in a "drawing tree" to ensure that all the necessary drawings have been provided.

3.1.5 SYSTEMS REQUIREMENTS - The SAFCS shall meet the requirements set forth in the Government Performance Requirement, Small Arms Fire Control System.

3.1.6 TECHNICAL REPORTS

3.1.6.1 The contractor shall prepare, a Safety Assessment Report (SAR)(DI-SAFT-80102B) in accordance with MIL-STD-882D. The Safety Assessment Report is required for testing at a Government test agency.

3.1.6.2 The contractor shall immediately report (DI-SAFT-81563) any major accident/incident (including fire) resulting in any one or more of the following: causing one or more fatalities, or one or more disabling injuries; damage of Government property exceeding $10,000; an effect on program planning or production schedules; degrading the safety of equipment under contract, such that personal injury or property damage may be involved; or identifying a potential hazard requiring corrective action.

3.1.6.3 The contractor shall provide the government with a concise summary of the Maintenance Strategy (DI-MISC-80508) for how the SAFCS shall be maintained. The summary shall be justified by the SAFCS failures anticipated as a result of contractor testing. At the Start of Work Meeting, the Army shall review the strategy and either approve the strategy or provide comments to the contractor to permit the contractor to modify the strategy prior to approval by the Government.

3.1.6.4 The contractor shall provide a SAFCS Operator's Manual with Repair Parts and Special Tools list in government format in accordance with MIL-STD 40051A (delivered in both Microsoft WORD DOCUMENT FILE with vector drawings and in standard size hard copies). The contractor shall include instructions for how the operator will mount, boresight/zero, operate, maintain, repair and clean the SAFCS. Draft Operator's Manuals shall be delivered no later than 90 days prior to the beginning of the Operational Test. One final Operator's Manual shall be over-packed for each SAFCS when they are shipped to the Army.

3.1.6.5 The contractor shall provide a SAFCS Maintenance Manual in government format in accordance with MIL-STD 40051A (delivered in both Microsoft WORD DOCUMENT FILE with vector drawings and in pocket size hard copies). The contractor shall include instructions for all maintenance and repair. Draft Maintenance Manuals shall be delivered

no later than 90 days prior to the beginning of the Operational Test. One final Maintenance Manual shall be over-packed for each SAFCS when they are shipped to the Army.

The Maintenance Manual shall include a list of tasks, a Maintenance Allocation Chart. The list shall include the component, task, lowest level of maintenance authorized, tools and remarks. An example follows:

Component	Task	Level	Tools	Remarks
SAFCS	Install	Operator	None	
Rail Grabber	Repair	Unit	-3/8" hex wrench -Flat tip screwdriver	
Laser Range-Finder	Calibrate	Depot	-Electronic Test Bench -Eye safe goggles -Phillips head screwdriver	Static electricity must be avoided.

3.1.6.6 Manuals Review

3.1.6.6.1 During the Start of Work meeting, In-Process Review manual review meeting requirements, validation requirements, verification requirements and logistic demonstration requirements will be discussed by the contractor and agreed upon by the contractor and the Government.

3.1.6.6.2 There will be a minimum of two manual reviews at In-Process Review Meetings prior to validation. Requirements for meeting dates and location as required by Contractor/Government will be mutually established during the Start of Work meeting.

3.1.7. Validation

3.1.7.1 Prior to verification, the contractor shall perform a complete desktop validation edit against the drawing package, publication specifications, supplemental data and applicable source data along with a hands on equipment check out to ensure that the draft manuals are accurate.

3.1.7.2. The Government has the right to participate in the contractor validation by providing designated representatives to perform procedures. If the Government elects to observe contractor personnel

perform procedures, these contractor personnel shall not be from the staff that prepared the draft manuals.

3.1.8 Combined Verification and Logistics Demonstration

3.1.8.1 After validation, a combined verification and logistics demonstration will be conducted by the Government at Aberdeen Proving Ground, Maryland, prior to Operational Testing. The combined verification and logistics demonstration will verify the accuracy and thoroughness of the manuals and prove System Logistic Supportability and resolve Manprint issues.

3.1.8.2 The contractor shall provide representative(s) to observe the procedures. The contractor will not provide any coaching to the individuals conducting the procedures. If a procedure cannot be performed or the Government finds errors, the contractor shall research and correct the procedures and draft manuals and the procedure can be successfully performed. The Government may advise and assist, but will not perform final page content correction. Contractor representative(s) shall remain at the combined verification and logistics demonstration until all problems and comments have been resolved. The Government representative(s) will retain a master copy of all changes resulting from the combined verification and logistics demonstration. The contractor shall prepare a copy of the combined verification and logistics demonstration master for the contractor's use. Research as well as additions, deletions and corrections resulting from the combined verification and logistics demonstration shall be made by the contractor.

3.1.9 CONTRACT SUMMARY REPORT

The contractor shall prepare and submit a Contract Summary Report (DI-ADMN-80447). The Contract Summary Report shall include separate sections documenting the contractor's recommendations for the level of built-in test (BIT), if applicable, the extent of system modularity, and the maintenance concept that would be most effective in performing scheduled and unscheduled maintenance. Support equipment requirements shall be minimized, with emphasis on using those tools already existing in the unit armorer's tool kit, Direct Support maintenance tool kit and DMWR 9-1010-230. The support equipment requirements shall be documented in the report. The contractor shall document how storage, packaging, handling and transportation shall be provided for the SAFCS in the report. The report shall include the rationale supporting the recommendations for each and all of the above requirements.

The contractor shall include a separate section in the summary report summarizing Corrosion Prevention and Control (CPC) principles, including material studies conducted, technical reviews and test results which demonstrate performance as appropriate.

3.1.10 START OF WORK MEETING AND IN-PROCESS REVIEWS (IPR)

The contractor shall conduct or participate in the following reviews and meetings in support of the contract.

3.1.10.1 START OF WORK MEETING

Within thirty days after contract award, an initial coordination meeting shall be held at ARDEC (Picatinny Arsenal, NJ) to answer questions relating to the contract.

3.1.10.2 IN-PROCESS REVIEWS

The In-Process Review (IPR) is a technical review in which contractor representatives and Government representatives designated by the Procuring Agency participate. Topics to be presented and discussed shall include program status, design development, design analysis, preliminary Reliability, Availability and Maintainability (RAM) concepts, logistic concepts (to include maintenance), test plan preparation, test status, progress and results of data analysis, and reports to be delivered. Preliminary drafts of documentation, reports, etc., shall be made available during these IPRs. Milestone dates shall be reviewed and mutually updated as required. Additional milestone dates shall be mutually established as required. The IPR meetings shall take place at Picatinny Arsenal and the contractor facility. It is anticipated that no less than four IPRs shall be conducted.

3.1.11 DEVELOPMENT TEST (DT SUPPORT)

The contractor shall support Government evaluation of the SAFCS during DT. The DT will be coordinated and conducted by the Government.

3.1.11.1 The contractor shall be available at the Developmental Test site to provide engineering consultation support concerning the SAFCS systems within twenty-four hours of a request by the Government. For cost estimation purposes, five trips by the contractor to the Development Test site shall be used.

3.1.11.2 The contractor shall provide all maintenance repair including labor and material or parts to the SAFCS units during the Development Test that is not performed by the gunner or unit armorer as described in the Operator's Manual and the Maintenance Manual. The contractor shall complete all such repairs within forty-eight hours of notification of a failure in a SAFCS unit.

3.1.12 Operational Test (OT Support)

3.1.12.1 The contractor shall be available at the Operational Test site to provide engineering consultation support concerning the SAFCS systems within twenty-four hours of a request by the Government. For cost estimation purposes, five trips by the contractor to the Operational Test site shall be used.

3.1.12.2 The contractor shall provide all maintenance repairs including labor and material or parts to the SAFCS units during the Operational Test that is not performed by the gunner or unit armorer as described in the Operator's Manual and the Maintenance Manual. The contractor shall complete all such repairs within forty-eight hours of notification of a failure in a SAFCS unit.

3.1.13 The contractor shall provide in addition to the 20 prototypes a system support package. This system support package is a package of any and all spare and repair parts needed to sustain the 20 SAFCS units during development testing and operational testing. A list identifying each spare or repair part along with its part number shall also be included in the system support package.

3.1.14 Government Furnished Information (GFI)

The Government will provide the following GFI within three weeks of request from the contractor:

a. Technical assistance in developing reticle construction characteristics as discussed in paragraph 3.3.2.1.1 of the Performance Requirement.

b. Technical assistance in locating laser eye protection filter elements as discussed in paragraph 3.3.2.1.5 of the Performance Requirement.

3.1.15 Copyright Release. The contractor shall provide a signed copyright release letter citing the contract number and giving the Government permission to reproduce, modify and use any copyright information, including the manuals and that on vendor's components and parts. The release letter shall be submitted to the PCO.

3.2 Production Options under Ordering Periods 1 Through 5

3.2.1 Quantities

3.2.1.1 The contractor shall provide hardware meeting the requirements defined in the Government Performance Requirement, Small Arms Fire Control System. An Engineering Change Proposal (DI-CMAN-81589) in contractor format shall be provided for any change to the commercial drawings configuration that was submitted with the original SAFCS units Hardware Demonstration Phase.

3.2.1.1.1 The contactor shall provide a warranty covering the SAFCS units. The contractor agrees to provide all parts and labor to repair any failures for a period of one year from equipment delivery (i.e. date of DD250).

3.2.1.1.2 The contractor shall review the Operator's Manual and the Maintenance Manual to ensure that the procedures remain consistent with the equipment operation and maintenance. The contractor shall provide to the government any changes to the Operator's Manual and/or Maintenance Manual recommended by the contractor for operation and maintenance of the SAFCS units 150 days prior to initial equipment delivery.

3.2.1.1.2.1 The Government shall provide one Operator's Manual and one Maintenance Manual to the contractor for each SAFCS unit 30 days prior to delivery of the SAFCS units by the contractor.

3.2.1.1.3 Extended Warranty Option - If exercised, the contactor shall provide a warranty covering the SAFCS units that provides all parts and labor to repair any failures for a period of one additional year from completion of the warranty included with equipment delivery in 3.2.1.1.1.

3.3 Quality Program Requirements

3.3.1 Quality Assurance/Quality Control. The contractor must have and comply with the quality system it proposed in the solicitation. The SAFCS shall meet the quality assurance requirements of section 4 of the Performance Requirements.

3.3.2 Acceptance Inspection and Test Equipment (AIE) - Special acceptance inspection equipment designs (DI-QCIC-81006 Tailored) shall be prepared and submitted for Government approval. The contractor shall provide and maintain all AIE designs and hardware for inspection of the SAFCS.

3.3.3 First Article Testing (FAT) - First Article Inspection Procedures (DI-NDTI-81307) shall be prepared and in place prior to FAT.

ATTACHMENT 002

PERFORMANCE REQUIREMENT 10/10/00

NOTES:

1. Generic Small Arms Fire Control System (SAFCS)

This is a Non-Developmental Item (NDI) procurement program for a small arms fire control system to be used with the MK19, Mod 3 Grenade Machine Gun. The SAFCS is a unit with a mount that can be attached to the weapon without any special tools.

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 4 and 5 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 4 and 5 of this specification, whether or not they are listed.

2.2 Government Documents

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

MIL-STD-1913	Dimensioning of Accessory Mounting Rail for Small Arms Weapons Dated 03 February 1995
Notice 1	Dated 10 Jun 1999

2.2.2 Other Government documents, drawings and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

PSA3171030, Rev. XO	U. S. Army Communications Electronics Command, Electronics Interface Specification with RS-170

3. REQUIREMENTS

3.1 General Characteristics. The SAFCS is a generic term to describe a device which, when mounted to a MK19 Grenade Machine Gun, without permanent weapon modification specific to the SAFCS, shall not interfere with load, reload or immediate action, while providing a ballistic solution, to include factoring super elevation. It shall increase the probability of hit (PH) over that attainable with the current system, out to the maximum effective range of the weapon (2200 meters), in both day and night environments. The SAFCS shall be versatile with inherent flexibility to interface and operate with multiple current, as well as future crew served weapons and associated ammunition. The SAFCS will have ample resources to simultaneously store multiple weapon system firing data in order to compute a ballistics solution. The SAFCS will provide the capability to easily update weapon/ammo-firing data as weapon and/or ammunition changes are introduced or when new crew served weapon systems are fielded. The SAFCS will provide the gunner with the ability to easily and readily select from a variety of weapon/ammo combinations.

3.2 Systems Requirements

The SAFCS shall enable the gunner to accomplish all of the following functions, in order to meet the performance requirements stated in section 3.3 when exposed to the environmental conditions defined in 3.6.

Detect Target

Enhance Target Recognition, Recognize Target

Enhance Target Identification, Identify Target

Measure Range out to a minimum of 2.5KM during daylight conditions with 7KM visibility to accuracy of +/- 1 meter

Sense Environmental Conditions

Compute Ballistic Solutions

Provide an adjusted Aim-point to Vehicle sized targets at ranges up to 2.2 KM

3.2.1 The SAFCS shall provide for ease of operation by the gunner. The SAFCS shall permit the gunner to utilize all system controls when dressed for the environmental ranges specified below, and when wearing full nuclear, biological and chemical protective gear (i.e. Mission Oriented Protective Posture, level 4 (MOPP-4) clothing) as well as arctic dress. The SAFCS shall have knobs or switches on the system that will be easily identified during darkness and easily accessible to the operator. The SAFCS shall not preclude its utilization on weapons, which are remotely operated . The SAFCS shall provide lens covers for any exposed optical surfaces.

3.2.2 The SAFCS shall be designed for ease of maintenance at the lowest level feasible, and shall to the greatest extent possible, utilize skills within existing Military Occupational Specialties (MOS). The Government's goal, within the constraints of cost and complexity, would be to achieve:

a. Field repair by replacement of line replaceable units (LRU's) or shop replaceable units (SRU's)

b. LRU and SRU modules economical to dispose of at field level (design for discard)

c. Interim Contractor Support for depot level maintenance followed by organic depot support (if feasible).

3.3 PERFORMANCE REQUIREMENTS

3.3.1 SYSTEM PERFORMANCE

The following paragraphs define the specific performance requirements that shall be addressed. The contractor's system shall be configured to achieve and demonstrate the hit probabilities stated herein for the MK19, during exposure to the test conditions described in section 3.6. Target acquisition capability in excess of stated engagement ranges is desired. Target sizes are as follows:

Vehicle - 2.3m wide x 2.3m high x 4.6m long
Area - 50m wide x 10m deep (area of a deployed squad)

The performance shall be based on a burst fire mode with three to five rounds fired in a burst, but no range-in procedure considered (first burst-fire for effect) using either M430A1 HEDP 40MM CARTRIDGE or M918 TP 40MM CARTRIDGE ammunition. Burst hit probability (PH) is defined as: " At least one round in a burst hits the target".

3.3.1.1 MACHINE GUN, 40mm, MK19, MOD 3 (with SAFCS) The SAFCS, when attached and bore-sighted to the MK19 GMG and mounted on an M1114 Up Armored HMMWV mounted on the MK64 mount, shall provide at least a 25% probability of achieving one or more hit(s) in an engagement against a stationary vehicle size target (2.3m wide x 2.3m high x 4.6m long) at 1,000 meters in open terrain. (Objective) The SAFCS shall have a 50% probability of achieving one or more hit(s) in an engagement at a vehicle sized target at 1500 meters and a 75% probability of one or more hit(s) in an engagement on a dismounted squad sized area target (50 M wide x 10 M deep) at 2000 meters. An engagement is defined as one 3 to 5 round burst fired within 10 seconds of target identification.

During daylight conditions , with 7 KM visibility, the SAFCS shall be capable of target recognition, range determination, computing a ballistic solution, and providing an adjusted aim-point for VEHICLE size targets (2.3m wide x 2.3m high x 4.6m long)to the maximum effective range (2,200 m) of the MK19

GMG. Range determination must be accurate to +/- 1 meter. (Objective) Range determination shall be 5KM.

3.3.2 SAFCS PERFORMANCE

The SAFCS shall be a fire control system that provides specific ballistic solutions for the MK19, in order to increase the probability of hit to the levels specified in section 3.3.1.1. The SAFCS will provide specific ballistic solutions for the M2 and LRSR. The SAFCS shall utilize an offset aim point based upon a computed ballistic solution. The SAFCS shall include at a minimum, capabilities and components as specified below.

3.3.2.1 SIGHTING

The optics utilized in the SAFCS shall provide for day capabilities. The SAFCS should be capable of integrating other night vision devices, such as the AN/TVS-5 Crew Served Weapon Sight, and the AN/PAS-13. The SAFCS shall be capable of accepting signal or video from current night vision technology to include: AN/PAS-13, Thermal Weapon Sight, and the AN/TVS-5, Crew-Served Weapon Sight, without degrading the SAFCS inherent capabilities. (Objective) Have a self-contained capability, which will allow use at night, or during periods of limited visibility, without the use of a separate night vision device.

3.3.2.1.1 RETICLE CONSTRUCTION

If direct view optics are used the reticle construction shall be as follows: The reticle shall be a two-piece glass element optically cemented consisting of a reticle pattern on glass and cover plate. The cover plate shall have a thickness of 0.100 inches plus or minus 0.010 inches. The back air-to-glass surface of the reticle and the air-to-glass surface of the reticle cover plate shall be anti-reflection coated with MgF2.. The cover glass and reticle shall be from the same glass melt. The index of refraction of the cement used shall match the indices of the glass to within plus or minus 0.001. The surface quality at the reticle surface of both pieces shall be 80-50. External surfaces shall have a surface quality of 20-10 or better.

3.3.2.1.2 BORESIGHT

The SAFCS shall be bore sighted by the gunner within 10 minutes, (Objective) 5 minutes, and retaining the bore sight with the mounted weapon for at least 24 hours of combat operations. (Objective) The system will retain bore sight repeatability after two iterations of removal and reinstallation from the host weapon.

3.3.2.1.2.1 DAY OPTICS AND RANGEFINDER ALIGNMENT

The day sight and the rangefinder shall be capable of being collimated to each other to within +/- 0.1 mils. The day sight and rangefinder boresight shall be a factory alignment with tamper resistant adjustments.

3.3.2.1.2.2 DAY OPTICS AND WEAPON ALIGNMENT

The day sight shall have the capability to be boresighted (through adjustments) to the longitudinal axis of the weapon bore. Once Boresighted the day sight shall remain boresighted within +/- 1.0 mils after firing 200 rounds. This accuracy shall be retained throughout exposure to the operating environments specified in paragraph 3.6.

3.3.2.1.3 DAY SIGHT

The direct view optical system shall enable the gunner to acquire targets of the sizes specified in paragraph 3.3.1. Sighting performance (detection, recognition and identification) shall be sufficient to support the engagement ranges specified in section 3.3.1. The exit pupil location (eye relief) shall be selected to insure safe operation of the weapon.

The SAFCS shall allow transition from powered operation to manual operation within 5 seconds (threshold), 1 second (objective). The SAFCS shall allow the use of the weapons iron sights at all times.

3.3.2.1.4 THERMAL WEAPON SIGHT INTEGRATION (AN/PAS-13, HEAVY TWS/AN-TVS-5)

Provisions shall be made to integrate, both mechanically and electronically, a Government furnished AN/PAS-13, HEAVY TWS/AN-TVS-5. The mounting surface and attachment method consistent with that provided on the AN/PAS-13, HEAVY TWS/AN-TVS-5, as well as the electrical interfaces needed, shall be provided by the contractor.

3.3.2.1.4.1 ELECTRICAL INTERFACE

The contractor shall provide all electrical signals required through a BNC connector. The AN/PAS-13, HEAVY TWS/AN-TVS-5 will provide standard RS 170 video output in either analog or digital format as input to the SAFCS for processing. The SAFCS shall display the AN/PAS-13, HEAVY TWS/AN-TVS-5 video with required reticle, and alpha numerics, and appropriate symbology within the SAFCS eyepiece.

The AN/PAS-13, HEAVY TWS/AN-TVS-5 will have a self contained power source. The SAFCS shall not introduce any noise via signals or grounds into the AN/PAS-13, HEAVY TWS/AN-TVS-5 through the BNC. Also the AN/PAS-13, HEAVY TWS/AN-TVS-5 will not introduce noise via signals or grounds into the SAFCS through the BNC.

3.3.2.1.4.2 MECHANICAL INTERFACE

The contractor shall attach the AN/PAS-13, HEAVY TWS/AN-TVS-5 using the mounting surface defined in MIL-STD-1913. The mounting surface provided by the SAFCS shall provide a means to mechanically link the AN/PAS-13, HEAVY TWS/AN-TVS-5 to the SAFCS. The AN/PAS-13, HEAVY TWS/AN-TVS-5 detector shall maintain line of sight to the target regardless of weapon elevation, through the SAFCS weapon mount.

3.3.2.1.5 LASER EYE PROTECTION

The contractor shall design the incorporation ofoptical filter elements in any magnified direct view optics for the purpose of eye protection against laser radiation. A description of this protection on a system level is provided in the Laser Protection Addendum to this Purchase Description dated 26 October, 1996. The addendum is classified SECRET. The filter elements shall be located within the purged environment internal to the optical system.

3.3.2.2 RANGE FINDER

The range finder utilized in the SAFCS shall have the following capabilities/characteristics:

a. Eye safe at the exit aperture of the sight
b. Range accuracy: +/- 1 meter
c. Target discrimination: +/- 20 meters
d. False alarm rate: <1% 0.
e. Repetition rate: 6 per minute, min.
f. Multiple Returns: gunner shall be able to select either first or last return
g. It is desired, as a goal, that the rangefinder have the capability to accommodate the Multiple Integrated Laser Engagement System (MILES) for force on force training

NOTE: The rangefinder must be capable of accurate operation in a ground environment. The ability to operate off-vehicle, with a tripod base sitting directly on the ground is required.

3.3.2.3 ENVIRONMENTAL SUITE

If required, to meet PH requirements of paragraph 3.3.1, the contractor shall select and incorporate components for a sensor suite which will permit for automatic correction of environmental conditions. The sensor suite shall have an override provision to allow manual inputs from the gunner. The gunner shall not be able to input values which fall outside of the acceptable range of the sensors. In the event of an invalid entry, the gunner shall be notified via the display. Individual sensors shall be sufficiently accurate to permit overall achievement of the PH's defined in section 3.3.1. As a minimum, the following sensors shall be considered:

a. Cross Wind and Range Wind Sensors
b. Air Temperature Sensor
c. Barometric Pressure Sensor
d. Cant and Incline Sensor(s)

3.3.2.4 BALLISTICS COMPUTER

3.3.2.4.1 INPUTS The ballistics computer shall process all input data from any sensors identified in paragraph 3.3.2.3, range finder identified in paragraph 3.3.2.2, as well as input from the gunner. Gunner inputs shall include, at a minimum, ammunition type, as well as the ability to override and manually enter sensor information (e.g., observed wind direction differs from local sensor data).

3.3.2.4.2 The ballistic computer shall utilize the inputs defined in 3.3.2.4.1 together with ammunition specific ballistics data to generate offset aimpoint commands, and all other data necessary for satisfactory performance of the SAFCS. The ballistics computer shall be able to generate solutions necessary to engage targets, while both the weapon and target are stationary and achieve PH as specified in paragraph 3.3.1.

3.3.2.4.3 The ballistic data shall reside in non-volatile memory. Parameters set prior to or during the course of a mission shall reside in non-volatile memory for a duration of at least five minutes to facilitate removal and replacement of batteries.

3.3.2.5 AIMPOINT DISPLAY

The SAFCS shall provide a means of implementing the ballistics solutions of the computer such that the lay of the weapon can be adjusted in elevation and azimuth to engage the selected target. The ballistic solution implementation has to provide the ability to engage targets out to 2200 meters, the maximum effective range of the weapon. The implementation, or as a minimum the final process in the implementation, shall be the presentation of an aimpoint, representing the ballistic solution, in the gunner's field of view. This aimpoint, when placed on the target through adjustment of the weapon, shall allow an accurate aiming of the weapon to achieve the Ph's specified in paragraph 3.3.1. The position of the presented aimpoint shall be within +/- 0.25 mils of the computed values. The aimpoint shall be sized so as to not obscure the target when positioned over the target.

3.3.2.6 POWER SUPPLY

The power supply shall be internal to the SAFCS, and shall support operation of the SAFCS in all modes. The power supply shall rely on an internal (battery) power source in order to operate. Provisions shall be included for use of an external power source.

3.3.2.6.1 INTERNAL POWER SOURCE

The internal (battery) power source shall utilize standard military inventory lithium batteries, type BA-5847/U (non-rechargeable), or BB-2847/U (rechargeable). When using the BA-5847/U (non-rechargeable batteries, the internal power source shall have sufficient capacity to operate the SAFCS continuously for a minimum of 12 hours (threshold) 24 hours (objective) without replacement of batteries and within the following constraints:

a. No less than 200 lasings during daylight operations at ambient conditions;
b. No less than 100 lasings during night operations with night sight operating at ambient conditions;
c. Operation during exposure to environmental conditions as specified in paragraph 3.6.

When using the BB-2847/U (rechargeable) batteries, the internal power source shall have sufficient capacity to operate the SAFCS continuously for a minimum of 6 hours, without replacement of batteries, within the constraints described above.

Batteries shall be accessible for removal and replacement without dismounting the SAFCS from the weapon. The SAFCS shall be polarity protected against damage from incorrect battery insertion. The battery cover shall be captive. A battery strength indicator shall be provided. Consideration shall be given to the feasibility of incorporating a solar recharge capability for the batteries and/or an internal charger which will be powered by the vehicle. Additionally, the batteries shall be replaceable by a soldier wearing arctic or MOPP-4 clothing.

3.3.2.6.2 EXTERNAL POWER SOURCE

The external (auxiliary) power interface shall provide for use of a standard military 24-volt vehicle battery to power the SAFCS. This power source shall provide for the interface between the SAFCS and the vehicle battery. This interface shall be an integral part of the SAFCS.

3.3.3 SYSTEM MOUNT

The mount shall provide for the integration of SAFCS to the weapon without permanent weapon modification. The design and integration of the mount shall be considered an integral component of the SAFCS. The mount shall be capable of being installed or removed by no more than one soldier (5^{th} percentile female through the 95^{th} percentile male categories) without the use of any specialized tools or equipment within one minute. The mount shall be capable of maintaining the sight on the target regardless of weapon elevation.

3.3.4 BUILT-IN TEST (BIT)-

The SAFCS shall include the BIT circuitry and indicators necessary to detect system failure. In addition, the BIT shall display system failure to the gunner. The Government's goal would be to achieve a level of BIT which performs fault isolation and display to the module, SRU, or LRU level.

3.3.5 WARM-UP TIME

At ambient temperatures above -17.8 degrees C (0 degrees F), the SAFCS shall achieve a fully operational state in seven (7) seconds maximum. From -17.8 degrees C (0 degrees F) to the low operating temperature condition specified in paragraph 3.6.1.3, warm-up time shall not exceed 90 seconds.

3.3.6 OPERATIONAL MODES

The SAFCS shall provide, at a minimum, the following gunner selectable modes of operation: on/off; day; night (when a night sensor has been integrated); stand-by; and back-up.

3.3.6.1 The day and night modes shall permit the gunner to select appropriate function and sensor inputs necessary to perform a specific mission.

3.3.6.2 The back-up mode shall permit the gunner to bypass faulty functions in order to operate the SAFCS in a degraded condition.

3.3.6.3 The stand-by mode is an energy conservation mode that is user selective and shall resume previously selected mode upon detecting input.

3.3.7 REMOTE OPERATION CAPABILITY

The SAFCS will be designed to be used with remotely operated weapon platforms.

3.4 SOFTWARE

The contractor shall develop and test software to achieve PH values for the M430A1 HEDP 40MM CARTRIDGE or M918 TP 40MM CARTRIDGE ammunition. The software shall be configured to accept future ballistics ammunition data with minimal software change. In addition to ballistics software, the SAFCS shall contain all software necessary to fully operate the system.

3.5 PHYSICAL CHARACTERISTICS

3.5.1 WEIGHT

The SAFCS, including power supply, and mount, should be designed to weigh 6.36kg maximum. A weight of 5kg or less is desired.

3.5.2 INTERFACE

SAFCS shall be mounted on the Base, Bracket Sight dovetail surface as described in the attached Draft Drawing Number RS2000A, BASE, BRACKET, SIGHT. The Base, Bracket, Sight shall be mounted on the right side of the MK19 as viewed from the rear with the dovetail surface away from the weapon and the narrow end of the dovetail pointed towards the muzzle of the MK19. The longitudinal centerline of the dovetail surface shall be mounted approximately .4 inches above the centerline of the MK19 back plate pin. The rear edge of the dovetail surface shall be mounted approximately 1.65 inches forward of the centerline of the MK19 back plate pin.

SAFCS shall be designed and built so that when used with the MK19, it shall not interfere with the MK19 gunner or the efficient handling, mounting, loading of ammunition and operation of the MK19.

3.6 ENVIRONMENTAL CONDITIONS

The SAFCS shall meet the environmental requirements for operation and storage as specified in the following paragraphs.

3.6.1 TEMPERATURE

3.6.1.1 SOLAR RADIATION

The operating SAFCS shall not exhibit any damage or degradation in performance when subjected to temperature fluctuations from +32 degrees C (+90 degrees F) to +49 degrees C (+120 degrees F) with solar radiation.

3.6.1.2 HIGH TEMPERATURE

The SAFCS shall not be damaged or exhibit degradation in performance when operated at temperatures to +49 degrees C (+120 degrees F). The SAFCS shall not be damaged or exhibit degradation in performance after having been stored at temperatures to +71 degrees C (+160 degrees F).

3.6.1.3 LOW TEMPERATURE

The SAFCS shall not be damaged or exhibit degradation in performance when operated at temperatures as low as -32 degrees C (-25 degrees F) or when operated after being stored in a non-operating mode in temperatures as low as -51 degrees C (-60 degrees F).

3.6.1.4 TEMPERATURE SHOCK

The SAFCS shall not be damaged or exhibit degradation in performance when subjected to sudden temperatures changes, in the non-operating mode, as specified.

a. 70F to 140F back to 70F.

b. 70F to -40F back to 70F.

3.6.2 SHOCK AND VIBRATION

3.6.2.1 BENCH HANDLING

The SAFCS shall not be damaged or degraded in performance after experiencing mechanical shocks commonly encountered during repair, maintenance and system checks.

3.6.2.2 VIBRATION

The SAFCS shall not be damaged or degraded in performance when subjected to random vibration in three mutually perpendicular axes and varying in amplitude from 0.015 inch to 3.0 (total excursion) with the frequency being varied between 5 and 500 Hertz (Hz). Test duration will be 270 minutes per axis.

3.6.2.3 WEAPON SHOCK

The SAFCS, when mounted and zeroed on the MK19 Grenade Machine Gun shall not shift in zero more than 0.25 milliradians in any direction or experience damage or degradation in performance when subjected to the vibration of 200 rounds each of the ammunition available for this weapon.

3.6.2.4 Drop Test

The SAFCS shall withstand a two-foot drop onto 1/2-inch thick plywood over concrete with no damage. The SAFCS shall be dropped a total of thirty times to include five drops in each orientation: top up, top down, objective down, eyepiece down and, each side down. After this test, the telescope line of sight shall not change by more than two minutes of arc.

3.6.2.4 DURABILITY

The SAFCS, mounted to shock equipment via its weapon mounting surface, shall withstand a total of 2000 shocks in the longitudinal plane, 400 to 500 G's peak level with time duration from 0.7 to 1.1 milliseconds. After the test, the SAFCS shall have no physical damage and the line of sight shall not change by more than two minutes of arc.

3.6.3 ALTITUDE

The SAFCS shall not exhibit any damage or degradation in performance when exposed to altitudes to 15,000 feet in an unprotected operational mode and 50,000 feet in an unprotected non-operational mode.

3.6.4 FUNGUS

Neither the SAFCS, any of its cases, or any of its accessories and tools shall support fungus growth, or be damaged or degraded by the presence of fungus spores or adjacent growth.

3.6.5 EXPLOSIVE ATMOSPHERE

The SAFCS shall not cause ignition of an ambient explosive gaseous mixture.

3.6.6 ELECTROMAGNETIC INTERFERENCE

The SAFCS shall not emit any electromagnetic interference which may adversely affect other electronic equipment or subsystems typically found in ground vehicles or facilities. The SAFCS shall not be susceptible to failure or disruption of operation when exposed to electromagnetic interference from other electronic equipment or subsystems typically found in ground vehicles or facilities. That portion of MIL-STD-461C, related to "Equipment and Subsystems Installed in Ground Facilities (Class A3)" may be used as a guide to determine criteria necessary to achieve these requirements.

3.6.7 NUCLEAR, BIOLOGICAL, AND CHEMICAL (NBC)

The SAFCS shall be NBC contamination survivable and decontaminable. The SAFCS shall withstand, with no physical damage, the following decontamination using the individual soldier's personal decontamination kit, M258A1 which contains solution 1(72+/-2% hydroxyethane, 10+/-0.5% phenol, 5+/-0.5% sodium hydroxide, and .2+/-.05% ammonia in water) and solution 2 (45+/-2% hydroxyethane and 5+/-0.5% zinc chloride in water). A resultant insoluble white residue on non-optical surfaces when solution 2 is used is not a cause for failure.

3.6.8 Surface reflections:
All exterior non-optical surfaces of the SAFCS shall have a non-reflective finish. Reflections (glint) from optical surfaces, will be minimized to the extent that there is no signature in the object field beyond 50 meters, which could be used as a locator when using an image intensifier detector or direct view binoculars (7X50). With any anti-reflection device in place, the system shall meet all requirements. If a detachable anti-reflection device is used, it shall be capable of being attached/detached while the user is wearing cold weather or MOPP gloves.

3.7 Workmanship.
Workmanship shall be in accordance with the workmanship requirements of MIL-W-63150. In addition, the SAFCS shall be free from grease, dust, rust, corrosive products, and other foreign matter. The cleaning method used shall not be injurious to any parts not shall the parts be contaminated by the cleaning agent.

3.8 Sealing and Purging:
All internal optical areas of the SAFCS shall be purged with dry nitrogen. Body openings shall be sealed so that the interior is moisture-free after purging.

3.9 Color:
The SAFCS protective finishes shall be dull black or gray and non-reflective.

3.10 Reliability:
The FC must have a .90 probability (.95 Objective) of completing the 24 hour mission characterized/depicted in the Operational Mode Summary/Mission Profile (OMS/MP) without incurring an Essential Function Failure (EFF) as described in the Reliability Factors definition in Scoring Criteria.

4. VERIFICATION

4.1 Responsibility for verification. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests). Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements unless disapproved by the Government. The Government reserves the right to perform any of the inspections deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Inspection and test methods. Inspection and test methods and procedures necessary to assure compliance with all of the requirements contained herein or specified in the contract shall be established by the contractor. Each requirement shall be carefully analyzed, and a determination made as to the methods, procedures, equipment, and sequence of inspection and tests, which will best insure the acceptance of those components and products, which meet the specified requirements and reject those that do not. All methods will be approved by the Government prior to their usage.

4.3 Classification of verification. The verification requirements (examinations and tests) specified herein are classified as follows:

a. First Article Test (see 4.4)

b. Quality Conformance Test (see 4.5)

4.4 First Article Test.

4.4.1 Submission. The contractor shall submit a first article sample as designated by the Contracting Officer for evaluation in accordance with provisions of 4.4.2. The first article sample shall consist of assemblies, components and test specimens listed below in the quantities indicated.

QUANTITY	NOMENCLTURE	INSTRUCTIONS
3 each	Small Arms Fire Control System	Completely assembled with container

4.4.2 Inspections to be performed. As determined by the Government, the first article assemblies, components and test specimens may be subjected to any or all examinations and tests specified in the detailed Performance Requirement/Purchase Description and be inspected for compliance with any or all of the applicable drawings.

TABLE I. FIRST ARTICLE TEST

#	CHARACTERISTIC	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION REFERENCE
1	System Performance	100%	3.3.1	COC/4.6
2	Sighting	100%	3.3.2.1	4.6
3	Reticle Construction	100%	3.3.2.1.1	COC/4.6
4	Boresight	100%	3.3.2.1.2	4.6
5	Day Optics and Rangefinder Alignment	100%	3.3.2.1.2.1	4.6
6	Day Optics and Weapon Alignment	100%	3.3.2.1.2.2	4.6
7	Day Sight	100%	3.3.2.1.3	4.6
8	TWS Integration	100%	3.3.2.1.4	4.6
9	TWS Electrical Interface	100%	3.3.2.1.4.1	4.6
10	TWS Mechanical Interface	100%	3.3.2.1.4.2	4.6
11	Laser Eye Protection	100%	3.3.2.1.5	Addendum
12	Range Finder	100%	3.3.2.2	COC/4.6
13	Environmental Suite	100%	3.3.2.3	4.6
14	Ballistic Computer	100%	3.3.2.4	4.6
15	Aimpoint Display	100%	3.3.2.5	COC/4.6
16	Internal Power Source	100%	3.3.2.6.1	4.6
17	External Power Source	100%	3.3.2.6.2	4.6
18	System Mount	100%	3.3.3	4.6
19	Built-in Test	100%	3.3.4	4.6
20	Warm-up Time	100%	3.3.5	4.6
21	Operational Modes	100%	3.3.6	4.6
22	Remote Operation Design	100%	3.3.7	4.6
23	Software	100%	3.4	4.6
24	Weight	100%	3.5.1	4.6
25	Interface	100%	3.5.2	4.6
26	Solar Radiation	100%	3.6.1.1	4.6
27	High Temperature	100%	3.6.1.2	4.6
28	Low Temperature	100%	3.6.1.3	4.6
29	Temperature Shock	100%	3.6.1.4	4.6
30	Bench Handling	100%	3.6.2.1	4.6
31	Transportation Vibration	100%	3.6.2.2	4.6
32	Weapon Shock	100%	3.6.2.3	4.6
33	Drop Test	100%	3.6.2.4	4.6
34	Durability	100%	3.6.2.5	4.6
35	Altitude	100%	3.6.3	4.6
36	Fungus	100%	3.6.4	4.6
37	Explosive Atmosphere	100%	3.6.5	4.6
38	Electromagnetic Interfere	100%	3.6.6	4.6
39	NBC Decontamination	100%	3.6.7	4.6
40	Surface Reflection	100%	3.6.8	4.6
41	Color	100%	3.6.9	4.6
42	Reliability	100%	3.6.10	4.6

4.4.3 Rejection. If any assembly, component or test specimen fails to comply with the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate inspection upon any failure of an assembly, component or test specimen to comply with any of the requirements.

4.5 Quality Conformance.

4.5.1 Inspection Lot Formation. The term "inspection lot" is defined as a homogeneous collection of units of production from which a representative sample is drawn or which is inspected 100 percent to determine conformance with applicable requirements. Units of product selected for inspection shall represent only the inspection lot from which they are drawn and shall not be construed to represent any prior or subsequent quantities presented for inspection. Homogeneity shall be considered to exist provided the inspection lot has been produced by one manufacturer, in one unchanged process, using the same materials and methods, in accordance with the same drawings, same drawing revisions, same specification and same specification revisions. The contractor shall comply with the homogeneity criteria specified herein, regardless of the type of inspection procedure which is being applied to determine conformance with requirements.

4.5.2 Lot Size. Lot size for SAFCS Quality Conformance Testing shall be determined by the contractor with regard to Quality Assurance policy, delivery schedules and production capacity. Each lot shall not exceed one month's production.

4.5.3 Examinations and Test.

a. Classification of Characteristics: Quality conformance examinations and tests are specified in the following Classification of Characteristics paragraphs. The contractor's quality program or detailed inspection shall provide assurance of compliance of all characteristics with the applicable drawing and specification requirements utilizing as a minimum the conformance criteria specified. When cited herein, attributes sampling shall be conducted in accordance with Table II below, using the inspection levels stated in Classification of Characteristics paragraphs.

TABLE II. Attribute Sampling Inspection

Lot Size	Inspection Levels		
	I	II	III
2 to 8	*	5	2
9 to 15	*	5	2
16 to 25	*	5	2
26 to 50	32	5	2
51 to 90	32	13	2
91 to 150	32	13	2
151 to 280	32	20	2
281 to 500	32	20	2
501 to 1200	80	20	2

Number under inspection levels indicate sample size; asterisks (*) indicate one hundred percent inspection. If sample size exceeds lot size, perform one hundred percent inspection. Accept on zero and reject on one or more for all inspection levels.

b. Alternative Quality Conformance Provisions: Alternative quality conformance procedures, methods, or equipment, such as statistical process control, tool control, other types of sampling procedures, etc., may be used by the contractor when they provide, as a minimum, the level of quality assurance required by the provisions specified herein. Prior to applying such alternative procedures, methods, or equipment, the contractor shall describe them in a written proposal submitted to the Government for evaluation. When required, the contractor shall demonstrate that the effectiveness of each proposed alternative is equal to or better than the specified quality assurance provision(s) herein. In case of dispute as to whether the contractor's proposed alternative(s) provides equivalent assurance, the provisions of this Purchase Description shall apply. All approved alternative provisions shall be specifically incorporated into the contractor's quality program or detailed inspection system, as applicable.

TABLE III. QUALITY CONFORMANCE TEST

CHARACTERISTIC	CONFORMANCE CRITERIA (Table II)	REQUIREMENT PARAGRAPH	INSPECTION REFERENCE
MAJOR			
101 System Performance	Level I	3.3.1	4.6
102 Boresight	Level I	3.3.2.1.2	4.6

103 Laser Eye Protection	Level I	3.3.2.1.5	Addendum
104 Range Finder	Level III	3.3.2.2	4.6
105 Environmental Suite	Level III	3.3.2.3	4.6
106 Ballistics Computer	Level III	3.3.2.4	4.6
107 Operational Modes	Level III	3.3.6	4.6
108 Remote Operation	Level III	3.3.7	4.6
109 Temperature	Level II	3.6.1	4.6
110 Vibration	Level II	3.6.2.2	4.6
111 Weapon Shock	Level I	3.6.2.3	4.6
112 Durability	Level II	3.6.2.5	4.6
113 Electromagnetic Interference	Level III	3.6.6	4.6
MINOR			
201 Workmanship	Level II	3.7	Visual
202 Sealing and Purging	Level II	3.8	4.6
203 Color	Level II	3.9	Visual

4.6 Methods of Inspection: Where specified herein, inspection and test methods and procedures necessary to assure compliance with all the requirements contained in this purchase description or specified in the contract shall be established by the contractor. Each requirement shall be carefully analyzed, and a determination made as to the methods, procedures, equipment, and sequence of inspection and tests which will best insure the acceptance of those components and products which meet the specified requirements and reject those that do not. Documents such as MIL-PERF-13830 and MIL-STD-810E can be used as guides.

5. PACKAGING

5.1 The contractor shall deliver a prototype transit and storage case for each SAFCS unit. The prototype cases shall meet the following requirements.

CASE: A hard shell case is to be provided for each unit. The case may be produced from any material (polyethylene, fiberglass, aluminum, etc.), or combination of materials, which will have the following features and be able to withstand the stated conditions.

5.1.1 Special Features:

a. Inner dimension of adequate size to provide sufficient cushioning protection necessary for the item to survive multiple military shipment cycles and various multiple operational scenarios without damage to the item or the container.

b. Hardware
   1. One handle
   2. Clamps/hinges/latches/lock hasp

c. Ease of Use.

The case shall have a means of releasing internal pressure (by a person wearing MOPP IV gloves) to allow ease of opening following changes in altitude. Closures shall ensure ease of opening and closing by a single person wearing cold weather protective gloves, while providing sufficient force to meet sealing requirements.

d. Identification Plate

attachment 003

DEPARTMENT OF DEFENSE
CONTRACT SECURITY CLASSIFICATION SPECIFICATION

(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)

1. CLEARANCE AND SAFEGUARDING

a. FACILITY CLEARANCE REQUIRED: SECRET

b. LEVEL OF SAFEGUARDING REQUIRED: SECRET

2. THIS SPECIFICATION IS FOR: *(X and complete as applicable)*

- a. PRIME CONTRACT NUMBER: TO BE DETERMINED
- b. SUBCONTRACT NUMBER:
- c. SOLICITATION OR OTHER NUMBER: TO BE DETERMINED — Due Date (YYMMDD): TO BE DETERMINED

3. THIS SPECIFICATION IS: *(X and complete as applicable)*

- X a. ORIGINAL *(Complete date in all cases)* — Date (YYMMDD): 000925
- b. REVISED *(Supersedes all previous specs)* — Revision No.: — Date (YYMMDD):
- c. FINAL *(Complete item 5 in all cases)* — Date (YYMMDD):

4. IS THIS A FOLLOW-ON CONTRACT? [ ] YES [X] NO. If Yes, complete the following:

Classified material received or generated under _____ *(Preceding Contract Number)* is transferred to this follow-on contract.

5. IS THIS A FINAL DD FORM 254? [ ] YES [X] NO. If Yes, complete the following:

In response to the contractor's request dated _____, retention of the classified material is authorized for the period _____

6. CONTRACTOR *(Include Commercial and Government Entity (CAGE) Code)*

a. NAME, ADDRESS, AND ZIP CODE	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*
TO BE DETERMINED AT TIME OF CONTRACT AWARD		

7. SUBCONTRACTOR

a. NAME, ADDRESS, AND ZIP CODE	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*

8. ACTUAL PERFORMANCE

a. LOCATION	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*

9. GENERAL IDENTIFICATION OF THIS PROCUREMENT

SAFCS (Small Arms Fire Control System)
For Use Primarily on the MK-19 GMG

The classified information for this Procurement is the Laser Filter Specification for above system.

10. CONTRACTOR WILL REQUIRE ACCESS TO:	YES	NO
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		X
b. RESTRICTED DATA		X
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		X
d. FORMERLY RESTRICTED DATA		X
e. INTELLIGENCE INFORMATION		
(1) Sensitive Compartmented Information (SCI)		X
(2) Non-SCI		X
f. SPECIAL ACCESS INFORMATION		X
g. NATO INFORMATION		X
h. FOREIGN GOVERNMENT INFORMATION		X
i. LIMITED DISSEMINATION INFORMATION		X
j. FOR OFFICIAL USE ONLY INFORMATION		X
k. OTHER *(Specify)*		

11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	YES	NO
a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY		X
b. RECEIVE CLASSIFIED DOCUMENTS ONLY		X
c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	X	
d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		X
e. PERFORM SERVICES ONLY		X
f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		X
g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		X
h. REQUIRE A COMSEC ACCOUNT		X
i. HAVE TEMPEST REQUIREMENTS		X
j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		X
k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		X
l. OTHER *(Specify)*		

12. PUBLIC RELEASE. Any information *(classified or unclassified)* pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or

[ ] Direct [X] Through *(Specify)*

Commander, U.S. Army TACOM-ARDEC
Attn: AMSTA-AR-FSF-R
Picatinny Arsenal, NJ 07801-5000

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review.
*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. *(Fill in as appropriate for the classified effort. Attach, or forward*

00-064. SCG: SCG for Laser Protection Materiel, issued by U.S.Army CECOM

DECLASSIFY: Appendix D, CECOM Pamphlet 380-3, dated 15 January 1996, Directorate for Intelligence and Information Security, U.S. Army, CECOM.

DATE OF SOURCE: FEB 4, 1997

Classified material must be handled per the National Industrial Security Program Operating Manual (NISPOM) DOD 5220.22-M (JAN 95)

INTELLIGENCE material will not be released to the contractor under this contract.

Contractor employees who do not have a personnel security clearance and need access to UNCLASSIFIED SENSITIVE INFORMATION (includes e-mail) or EQUIPMENT must be submitted for a personnel security investigation (NAC0). See attachment.

CONCURRENCE: Peter R Lawson
Peter R. Lawson
Security Specialist
Security Division

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. *(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)* [X] Yes [ ] No

Laser Protection is a military sensitive critical technology and under ABCA STANO 11493/11494, the United Kingdom is the only foreign country that may receive the Classified addendum to the SAFCS solicitation.

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. *(If Yes, explain and identify specific areas)* [ ] Yes [X] No

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL	b. TITLE	c. TELEPHONE *(Include Area Code)*
Louis S. Herczeg, Jr	Physicist	973-724-6276

d. ADDRESS *(Include Zip Code)*
Commander, U.S. Army TACOM-ARDEC
ATTN: AMSTA-AR-FSF-R
Picatinny Arsenal, NJ 07801-5000

e. SIGNATURE
Louis S Herczeg, Jr

17. REQUIRED DISTRIBUTION

- [X] a. CONTRACTOR
- [X] b. SUBCONTRACTOR
- [X] c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
- [X] d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
- [X] e. ADMINISTRATIVE CONTRACTING OFFICER
- [X] f. OTHERS AS NECESSARY AMSTA-AR-DSI-S

DD Form 254 Reverse, DEC 90

DD Form 254 continued.....

Block 13, Security Guidance

PERSONNEL SECURITY REQUIREMENTS

Cleared personnel are required to perform this service. However, contractor employees who do not have a personnel security clearance and need access to UNCLASSIFIED/SENSITIVE information or equipment must have their positions categorized with respect to security sensitivity, as either non-sensitive (NS), noncritical-senstive (NCS), or critical-sensitive (CS). Contractor personnel performing under this contract are required to have a personnel security investigation based on the sensitivity of their position. If adverse information is reflected as a result of this investigation the contractor shall be responsible for obtaining employees that are suitable for working in a sensitive position. If successful investigations cannot be obtained within 90 days after contract award, action may be taken to terminate said contract for DEFAULT.

b. NON US CITIZEN EMPLOYEE REQUIREMENTS

Non-US Citizens will not be allowed to perform work on contracts or subcontracts involving access (or possible access) to sensitive data, software, or equipment without prior approval from HQ AMC.

c. COMPLETION OF CONTRACT/TERMINATION OF EMPLOYMENT

Upon termination of employment in sensitive automation duties or temporary separation for a 60 day period or more, contractor employees will be given a termination briefing and will execute a Security Termination Statement, DA Form 2962.

Exhibit A

CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
	A	TDP _____ TM _____ OTHER GENERAL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
SAFCS		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A001	COMMERICIAL DRAWINGS AND ASSOCIATED LISTS		18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-DRPR-81003A *TAILORED	SECTION C, PARA 3.1.4	AMSTA-AR-CCL-A

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.
LT		ONE/R	SEE BL 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBS. SUB.**

16. REMARKS

*USE MIL-DTL-31000 AS GUIDANCE ONLY.

SUBMISSION SHALL BE 10 DAYS PRIOR TO INITIAL TEST HARDWARE DELIVERY. THEY WILL BE USED AS THE BASELINE DRAWINGS.

BLOCK 14: SUBMIT ELECTRONICALY TO <THOUTSMA@PICA.ARMY.MIL> AND <JUHND@RIA.ARMY.MIL>

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final Reg	Final Repro
AMSTA-AR-CCL-A		2	
15. TOTAL --------->		2	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A002	SAFETY ASSESSMENT REPORT		18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-SAFT-80102B	SECTION C, PARA 3.1.6.1	AMSTA-AR-CCL-A

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.
LT		SEE BL 16	SEE BL 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBS. SUB.**
			R/ASR

16. REMARKS

THE REPORT SHALL BE DONE IN ACCORDANCE WITH MIL-STD-882D.

SUBMISSION SHALL BE 60 DAYS PRIOR TO ANY TESTING AT A GOVERNMENT FACILITY. THE GOVERNMENT WILL RESPOND WITHIN 30 DAYS OF RECEIPT. REVISIONS DUE 15 DAYS AFTER RECEIPT OF GOVERNMENT COMMENTS.

BLOCK 14: SUBMIT ELECTRONICALLY TO <THOUTSMA.PICA.ARMY.MIL>

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final Reg	Final Repro
AMSTA-AR-CCL-A		1	
15. TOTAL --------->		1	

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
		MAUREEN MEDINA	03 OCT 00

CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER GENERAL
	A	

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
SAFCS		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A003	TECHNICAL REPORT - STUDY/SERVICES	SUMMARY OF MAINTENANCE STRATEGY

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80508	SECTION C, PARA 3.1.6.3	AMSTA-AR-CCL-A

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.
LT		SEE BL 16	SEE BL 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBS. SUB.**
			R/ASR

16. REMARKS

SUMMARY OF MAINTENANCE STRATEGY SHALL BE SUBMITTED 5 DAYS PRIOR TO START OF WORK MEETING. THE SUMMARY SHALL INCLUDE INFORMATION TO HOW SAFCS WILL BE MAINTAINED BOTH IN THE FIELD AND DEPOT. THE GOVERNMENT WILL RESPOND WITH 15 DAYS OF RECEIPT.

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14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AMSTA-AR-CCL-A		1	
15. TOTAL --------->		1	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A004	CONTRACT SUMMARY REPORT	

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-ADMN-80447	SECTION C, PARA 3.1.9	AMSTA-AR-CCL-A

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.
LT		OTIME	SEE BL 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBS. SUB.**

16. REMARKS

SUBMISSION SHALL BE AT THE COMPLETION OF THE DEMONSTRATION PHASE.

BLOCK 14: SUBMIT ELECTRONICALLY TO <THOUTSMA.PICA.ARMY.MIL>

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AMSTA-AR-CCL-A		1	
15. TOTAL --------->		1	

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
		MAUREEN MEDINA	02 OCT 00

CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
	A	TDP _____ TM _____ OTHER GENERAL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
SAFCS		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A005	Preparation of Digital Technical Information for Multi-Output Presentation of Technical Manuals	OPERATORS MANUAL	18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
MIL-STD-40051A	SECTION C, PARA 3.1.6.4	AMSTA-AR-CCL-A

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.
LT		AS REQ	SEE BL 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBS. SUB.**
			R/ASR

16. REMARKS

SUBMISSION OF DRAFT'S SHALL BE NLT 90 DAYS PRIOR TO OPERATIONAL TEST. THE GOVERNMENT SHALL RESPOND WITHIN 45 DAYS OF RECEIPT OF DRAFT. REVISIONS DUES 30 DAYS AFTER RECEIPT OF GOVERNMENT COMMENTS.

SUBMIT 1 DIGITAL COPY TO AMSTA-LC-CSIH ALL OTHERS SHALL BE HARD COPY. ONE PAPER COPY SHALL BE OVER-PACKED FOR EACH SAFCS.

THE OPERATOR'S MANUAL SHALL BE 4 X 51/2 INCHES.

DELIVERY SHALL BE IN MS WORD DOC FILE W/VECTOR DRAWINGS

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AMSTA-AR-CCL-A	1	1	
AMSTA-LC-CSIH	5	5	
W/EQUIPMENT		1	
15. TOTAL --------->	6	7	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A006	Preparation of Digital Technical Information for Multi-Output Presentation of Technical Manuals	MAINTENANCE MANUAL	18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
MIL-STD-40051A	SECTION C, PARA 3.1.6.5	AMSTA-AR-CCL-A

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.
LT		AS REQ	SEE BL 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBS. SUB.**
			R/ASR

16. REMARKS

SUBMISSION OF DRAFT'S SHALL BE NLT 90 DAYS PRIOR TO OPERATIONAL TEST. THE GOVERNMENT SHALL RESPOND WITHIN 45 DAYS OF RECEIPT OF DRAFT. REVISIONS DUES 30 DAYS AFTER RECEIPT OF GOVERNMENT COMMENTS.

SUBMIT 1 DIGITAL COPY TO AMSTA-LC-CSIH ALL OTHERS SHALL BE HARD COPY. ONE PAPER COPY SHALL BE OVER-PACKED FOR EACH SAFCS.

THE MAINTNANCE MANUAL SHALL BE 8 1/2 X 11 INCHES (LOOSE LEAF)

DELIVERY SHALL BE IN MS WORD DOC FILE W/VECTOR DRAWINGS.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AMSTA-AR-CCL-A	1	1	
AMSTA-LC-CSIH	5	5	
W/EQUIPMENT		1	
15. TOTAL --------->	6	7	

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
		MAUREEN MEDINA	02 OC 00

CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
	A	TDP _____ TM _____ OTHER GENERAL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
SAFCS		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A007	ENGINEERING CHANGE PROPOSALS	

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-81589	SECTION C, PARA 3.2.1.1	AMSTA-AR-CCL-A

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.
LT		AS REQ	AS REQ
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBS. SUB.**

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
AMSTA-AR-CCL-A		1	
AMSTA-AR-QAW-Q			
15. TOTAL --------->		1	

16. REMARKS

THE GOVERNMENT WILL RESPOND WITHIN 21 DAYS OF RECEIPT OF ORIGINAL AND ANY REVISIONS.

BLOCK 14: SUBMIT ELECTRONICALLY TO <THOUTSMA@PICA.ARMY.MIL>

ECP'S SHALL BE SUBMITTED FOR ANY CHANGES TO THE COMMERCIAL DRAWINGS SUBMITTED UN DI-DRPR-81003A (A001)

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
AOO8	ACCIDENT/INCIDENT REPORT	

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-SAFT-81563	SECTION C, PARA 3.1.6.2	AMSTA-AR-CCL-A

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.
LT		AS REQ	AS REQ
8. APP CODE	NA	**11. AS OF DATE**	**13. DATE OF SUBS. SUB.**

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
AMSTA-AR-CCL-A		1	
AMSTA-AR-QAW-Q			
15. TOTAL --------->		1	

16. REMARKS

BLOCK 14: SUBMIT ELECTRONICALLY TO <THOUTSMA@PICA.ARMY.MIL>

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
		MAUREEN MEDINA	02 OCT 00

CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
	A	TDP _____ TM _____ OTHER GENERAL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
SAFCS		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A009	FIRST ARTICLE QUALIFICATION TEST PLAN		18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-NDTI-81307	SECTION C, PARA 3.3.3	AMSTA-AR-CCL-A

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.
LT		ONE/R	SEE BL 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBS. SUB.**

16. REMARKS

SUBMISSION SHALL BE 30 DAYS PRIOR TO FIRST ARTICLE TESTING. THE GOVERNMENT WILL RESPOND WITHIN 10 DAYS OF RECEIPT.

BLOCK 14: SUBMIT ELECTRONICALLY TO <THOUSTMA@PICA.ARMY.MIL>

14. DISTRIBUTION	b. COPIES		
a. ADDRESSEE	Draft	Final Reg	Final Repro
AMSTA-AR-CCL-A		1	
AMSTA-AR-QAW-Q			
15. TOTAL --------->		1	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A010	SPECIAL INSPECTION EQUIPMENT DESCRITPTIVE DOCUMENTATION		18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-QCIC-81006 *TAILORED	SECTION C, PARA 3.3.2	AMSTA-AR-CCL-A

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.
LT		ONE/R	SEE BL 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBS. SUB.**

16. REMARKS

*DO NOT ADDRESS PARA'S 10.1, 10.2, 10.4.1(F) AND 10.4.2. IGNORE ALL REFERENCE TO THE WORK "SPECIAL" IN DID. SUBMIT FOR ALL CRITICAL, SPECIAL AND MAJOR CHARACTERISTICS IN THE SPECIFICATION OR QAP.

APPLICABLE TO ALL AIE DESIGNS THAT ARE USED TO PERFORM EXAMINATION AND TESTS IN ACCORDANCE WITH THE ITEM SPECIFICATION OR QAP.

BLOCK 12: SUBMIT 30 DAYS PRIOR TO FA, OR PRODUCTION, IF FA IS WAIVED. THE GOVERNMENT WILL RESPOND WITHIN 10 DAYS OF RECEIPT OF ORIGINALS AND REVISIONS. REVISIONS ARE TO BE SUBMITTED WITHIN 10 DAYS OF RECEIPT OF GOVERNMENT RESPONSE. IF DOCUMENTATION WAS APPROVED ON PRIOR CONTRACT AND NO CHANGES WERE MADE, SUBMIT ONLY EVIDENCE OF PRIOR APPROVALS.

14. DISTRIBUTION	b. COPIES		
a. ADDRESSEE	Draft	Final Reg	Final Repro
AMSTA-AR-CCL-A			
AMSTA-AR-QAW-Q			
DCMAO-QAR			
15. TOTAL --------->			

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
		MAUREEN MEDINA	03 OCT 00